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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	21641	multicarrier or DMT or OFDM	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 20:28
L2	7823	interleaver	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 20:28
נו	1200	L1 and L2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 20:29
L4	3995	(turbo near2 cod\$3) or (turbo near2 encod\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 20:29
L5	378	L3 and L4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:14
L7	365	L4 SAME ((two near2 bit) or ("2" near2 bit))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 20:30
L8	49	L3 and L7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:12
L9	1	(US-6088387-\$).did.	USPAT	OR	ON	2006/03/01 21:07

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. L14	49	L5 and L7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:14
L15	1840	(soft near2 decision) and (hard near2 decision)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:18
L16	57	L5 and L15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:25

Page 3

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		"6628723"   "6725411"				
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L19	504	L13 or L17 or L18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:25
L20	38	L19 and L4 and L7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:39
L21	32	L19 and L1 and L4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:40

3/2/2006 12:56:51 AM C:\Documents and Settings\jdsouza\My Documents\EAST\Workspaces\10088262.wsp Page 5

	· ·				I	
L27	585	("20010031017"   "20010043576"	US-PGPUB;	OR	ON	2006/03/01 21:40
1		"20010048692"   "20020003833"	USPAT;			
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1		"20020048368"   "20020065047"				
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		"20030235147"   "20040001499"				
		"20040001564"   "20040028015"				
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		"5315583"   "5319673"				
		5315563   5319673     "5335276"   "5339313"   "5343473"				
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2/2/22	12 = 5 = 1 11	"5400271"   "5504747"   "5504775"				Dogs 6
3/2/200	6 12:56:51 AN	1	2000\10000263	lwep.		Page 6
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1	1	"5541972"   "5546316"		I	I	1

L28	12	L27 and L1 and L7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:41
L29	38	L27 and L1 and L4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:41

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			110 000110	0.0	ON	2006/02/04 24 44
L35	646	("20010031017"   "20010043576"	US-PGPUB;	OR	ON	2006/03/01 21:41
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į.		"4581734"   "4587662"				
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2/2:55	<u> </u>	"5515379 <sup>"</sup>   "5524027 <sup>"</sup>				Dage 9
	06 12:56:51 AN	<sup>1</sup> ."5534913", ,"5537414", ,"5537435",	2000\10000263	wen		Page 8
C:\Docu	iments and Se	7 "5534913"   "5537414"   "5537435"  ttings\idsolva\My.pocuments\EAS1\Worksr 	aces/1000202	Ash		
ĺ	1	"5546470"   "5546470"   "5548587"	İ	j	I	1

L36	219	L35 and L1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:42
L37	35	L36 and L4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:42
L38	13	L36 and L15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:52

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C:\Docu	ments and Se	7 "5864548"   "5878085"   "5896368" tting\$\\d\$0128\MY B\$01196115\EAST\Worksp     "5903598"   "5903614"	aces/10088765	wsp		
1		"5010182"   "5014032"   "5044840"	l	l	İ	l I

L40	5	L39 and L1 and L7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:52
L41	10	L39 and L7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:53
L42	24	(((allocate or assign) near3 bits) SAME SNR) SAME carrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:53
L43	1	L39 and L42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR 	ON	2006/03/01 21:54
L44	365	L4 and L7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:54
L45	71	L15 and L44	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 21:54
L46	1	(US-6038696-\$).did.	USPAT	OR	ON	2006/03/01 22:13
L47	4	(two near2 path) and L1 and L15	USPAT	OR	ON	2006/03/01 22:23

L48	35	("20010031017"   "20040240590"   "20050013379"   "5134635"   "5204874"   "5204876"   "5220570"   "5307374"   "5383219"   "5438590"   "5457704"   "5654962"   "5657354"   "5721745"   "5737337"   "5757863"   "5790595"   "5809089"   "5812613"   "5867538"   "5968198"   "5970098"   "5996104"   "6034996"   "6088387"   "6219386"   "6687315"   "6715124"   "6769090").PN. OR ("6324224"   "6327316"   "6381727"   "6956872").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/01 22:23
L49	1	(US-5757863-\$).did.	USPAT	OR	ON	2006/03/01 22:54
L50	1	(US-6034996-\$).did.	USPAT	OR	ON	2006/03/01 23:22
L51	327	recursive near2 convolution\$2 near2 encod\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 23:32
L52	281	L51 and L2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/02 00:00
L53	387138	(memory or delay) WITH ("4" or four)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 23:33
L54	41025	L53 and search\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 23:34
L55	16	L52 and L54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 23:34
L56	1	(US-5978365-\$).did.	USPAT	OR	ON	2006/03/01 23:40

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					,	•
L57	4	L51 and (connection near4 pattern)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/02 00:00
L58	56	L51 and search\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/02 00:00
L59	1	(US-6014411-\$).did.	USPAT	OR	ON	2006/03/02 00:08
S1	677	(375/349).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/28 16:37
S2	21641	multicarrier or DMT or OFDM	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:44
S3	7823	interleaver	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/01 20:28
S4	183	fast near2 data near2 buffer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:46
S5	291	interleav\$3 near2 data near2 buffer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:46
S6	20	S4 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:52

S7	3995	(turbo near2 cod\$3) or (turbo near2 encod\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM TDB	OR	ON	2006/02/28 16:48
S8	365	S7 SAME ((two near2 bit) or ("2" near2 bit))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:49
<b>S9</b>	171	((allocate or assign) near3 bits) SAME path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:51
S10	2409	(turbo near2 decod\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:51
S11	1840	(soft near2 decision) and (hard near2 decision)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:51
S12	24	(((allocate or assign) near3 bits) SAME SNR) SAME carrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/28 16:52



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» Key		Display	Format:  © Citation C Citation & Abstract			
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IEEE JNL	IEEE Journal or Magazine					
IEE JNL	IEE Journal or Magazine	□ 1.	Near Shannon limit error-correcting coding and decoding: Turbo-codes.  Berrou, C.; Glavieux, A.; Thitimajshima, P.;			
IEEE CNF	IEEE Conference		Communications, 1993. ICC 93. Geneva. Technical Program, Conference Rec International Conference on			
IEE CNF	Proceeding IEE Conference		Volume 2, 23-26 May 1993 Page(s):1064 - 1070 vol.2			
	Proceeding		Digital Object Identifier 10.1109/ICC.1993.397441			
IEEE STD	IEEE Standard		Abstract   Full Text: PDF(492 KB)   IEEE CNF Rights and Permissions			
		□ ²	Pseudo-random recursive convolutional coding for near-capacity perforn Battail, G.; Berrou, C.; Glavieux, A.; Global Telecommunications Conference, 1993, including a Communications TI Conference. Technical Program Conference Record, IEEE in Houston. GLOBE 29 Nov2 Dec. 1993 Page(s):23 - 27 vol.4 Digital Object Identifier 10.1109/GLOCOM.1993.318422  Abstract   Full Text: PDF(524 KB) IEEE CNF Rights and Permissions			
		3	Comparison of turbo-code decoders applied to short frame transmission Jung, P.; <u>Selected Areas in Communications, IEEE Journal on</u> Volume 14, Issue 3, April 1996 Page(s):530 - 537  Digital Object Identifier 10.1109/49.490238 <u>Abstract</u>   Full Text: <u>PDF</u> (892 KB) IEEE JNL			
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		<u> </u>	Canonical structure for systematic rate k/n convolutional encoders and it turbo codes  Benedetto, S.; Garello, R.; Montorsi, G.; <u>Electronics Letters</u> Volume 32, Issue 11, 23 May 1996 Page(s):981 - 983 <u>Abstract</u>   Full Text: <u>PDF</u> (360 KB) IEE JNL			
		<u> </u>	An upper bound on turbo code free distance Blackert, W.J.; Hall, E.K.; Wilson, S.G.; Communications, 1996. ICC 96, Conference Record, Converging Technologie: Applications, 1996 IEEE International Conference on Volume 2, 23-27 June 1996 Page(s):957 - 961 vol.2			

Digital Object Identifier 10.1109/ICC.1996.541353 Abstract | Full Text: PDF(300 KB) | IEEE CNF Rights and Permissions 6. Systematic encoders for convolutional codes and their application to turl Benedetto, S.; Garello, R.; Montorsi, G.; Global Telecommunications Conference, 1996. GLOBECOM '96. 'Communica' **Global Prosperity** 18-22 Nov. 1996 Page(s):6 - 10 Digital Object Identifier 10.1109/GLOCOM.1996.586739 Abstract | Full Text: PDF(408 KB) | IEEE CNF Rights and Permissions 7. Turbo-coded parallel modem techniques for personal communications Keller, T.; Woodard, J.P.; Hanzo, L.; Vehicular Technology Conference, 1997 IEEE 47th Volume 3, 4-7 May 1997 Page(s):2158 - 2162 vol.3 Digital Object Identifier 10.1109/VETEC.1997.605999 Abstract | Full Text: PDF(444 KB) | IEEE CNF Rights and Permissions 8. Joint source and channel coding using turbo codes over rings Г Ruscitto, A.; Biglieri, E.M.; Communications, IEEE Transactions on Volume 46, Issue 8, Aug. 1998 Page(s):981 - 984 Digital Object Identifier 10.1109/26.705390 Abstract | Full Text: PDF(112 KB) | IEEE JNL Rights and Permissions 9. A search for good convolutional codes to be used in the construction of Benedetto, S.; Garello, R.; Montorsi, G.; Communications, IEEE Transactions on Volume 46, Issue 9, Sept. 1998 Page(s):1101 - 1105 Digital Object Identifier 10.1109/26.718548 Abstract | Full Text: PDF(196 KB) | IEEE JNL Rights and Permissions 10. Design and analysis of turbo codes on Rayleigh fading channels Hall, E.K.; Wilson, S.G.; Selected Areas in Communications, IEEE Journal on Volume 16, Issue 2, Feb. 1998 Page(s):160 - 174 Digital Object Identifier 10.1109/49.661105 Abstract | Full Text: PDF(408 KB) IEEE JNL Rights and Permissions 11. Improving the constituent codes of turbo encoders Ho, M.S.C.; Pietrobon, S.S.; Giles, T.; Global Telecommunications Conference, 1998. GLOBECOM 98. The Bridge to Integration\_IEEE Volume 6, 8-12 Nov. 1998 Page(s):3525 - 3529 vol.6 Digital Object Identifier 10.1109/GLOCOM.1998.775855 Abstract | Full Text: PDF(212 KB) | IEEE CNF Rights and Permissions 12. On interleaved, differentially encoded convolutional codes Peleg, M.; Sason, I.; Shamai, S.; Elia, A.; Information Theory, IEEE Transactions on Volume 45, Issue 7, Nov. 1999 Page(s):2572 - 2582 Digital Object Identifier 10.1109/18.796409

Abstract | Full Text: PDF(328 KB) | IEEE JNL Rights and Permissions 13. Novel algorithm for continuous decoding of turbo codes Bai, B.; Ma, X.; Wang, X.; Communications, IEE Proceedings-Volume 146, Issue 5, Oct. 1999 Page(s):271 - 274 Digital Object Identifier 10.1049/ip-com:19990689 Abstract | Full Text: PDF(216 KB) | IEE JNL 14. Tailbiting and decoding recursive systematic codes Г Van Stralen, N.A.; Ross, J.A.F.; Anderson, J.B.; **Electronics Letters** Volume 35, Issue 17, 19 Aug. 1999 Page(s):1461 - 1462 Digital Object Identifier 10.1049/el:19991020 Abstract | Full Text: PDF(200 KB) IEE JNL 15. Analysis of puncturing pattern for high rate turbo codes Fan Mo; Kwatra, S.C.; Junghwan Kim; Military Communications Conference Proceedings, 1999. MILCOM 1999. IEEE Volume 1, 31 Oct.-3 Nov. 1999 Page(s):547 - 550 vol.1 Digital Object Identifier 10.1109/MILCOM.1999.822742 Abstract | Full Text: PDF(316 KB) IEEE CNF Rights and Permissions 16. Adaptive Viterbi decoding of turbo codes with short frames Г Chan, F.; Communication Theory Mini-Conference, 1999 6-10 June 1999 Page(s):47 - 51 Digital Object Identifier 10.1109/CTMC.1999.790235 Abstract | Full Text: PDF(200 KB) | IEEE CNF Rights and Permissions 17. Joint synchronization and decoding of turbo codes on AWGN channels  $\Box$ Mielczarek, B.; Svenssen, A.; Vehicular Technology Conference, 1999 IEEE 49th Volume 3, 16-20 May 1999 Page(s):1886 - 1890 vol.3 Digital Object Identifier 10.1109/VETEC.1999.778365 Abstract | Full Text: PDF(396 KB) | IEEE CNF Rights and Permissions 18. Woven codes with outer block codes П Freudenberger, J.; Bossert, M.; Zyablov, V.; Shavgulidze, S.; Information Theory, 2000. Proceedings. IEEE International Symposium on 25-30 June 2000 Page(s):94 Digital Object Identifier 10.1109/ISIT.2000.866384 Abstract | Full Text: PDF(88 KB) | IEEE CNF Rights and Permissions 19. Punctured recursive convolutional encoders and their applications in tur Ba-Zhong Shen: Patapoutian, A.; McEwen, P.: Information Theory, 2000. Proceedings. IEEE International Symposium on 25-30 June 2000 Page(s):291 Digital Object Identifier 10.1109/ISIT.2000.866589 Abstract | Full Text: PDF(116 KB) | IEEE CNF Rights and Permissions

<sup>20.</sup> Space-time turbo codes: decorrelation properties and performance analy

channels Vishwanath, S.; Yu, W.; Negi, R.; Goldsmith, A.; Global Telecommunications Conference, 2000. GLOBECOM '00. IEEE Volume 2, 27 Nov.-1 Dec. 2000 Page(s):1016 - 1020 vol.2 Digital Object Identifier 10.1109/GLOCOM.2000.891291 Abstract | Full Text: PDF(412 KB) | IEEE CNF Rights and Permissions 21. Concatenated coding and iterative SOVA decoding with PR4 signaling Ghrayeb, A.; Ryan, W.E.; Communications, 2000. ICC 2000. 2000 IEEE International Conference on Volume 2, 18-22 June 2000 Page(s):597 - 601 vol.2 Digital Object Identifier 10.1109/ICC.2000.853566 Abstract | Full Text: PDF(404 KB) | IEEE CNF Rights and Permissions 22. Turbo-coded optical direct-detection CDMA system with PPM modulatior Jin Young Kim; Poor, H.V.; Lightwave Technology, Journal of Volume 19, Issue 3, March 2001 Page(s):312 - 323 Digital Object Identifier 10.1109/50.918882 Abstract | Full Text: PDF(232 KB) | IEEE JNL Rights and Permissions 23. Punctured recursive convolutional encoders and their applications in tur Ba-Zhong Shen; Patapoutian, A.; McEwen, P.A.; Information Theory, IEEE Transactions on Volume 47, Issue 6, Sept. 2001 Page(s):2300 - 2320 Digital Object Identifier 10.1109/18.945249 Abstract | Full Text: PDF(780 KB) | IEEE JNL Rights and Permissions 24. On the theory and performance of trellis termination methods for turbo c Hokfelt, J.; Edfors, O.; Maseng, T.; Selected Areas in Communications, IEEE Journal on Volume 19, Issue 5, May 2001 Page(s):838 - 847 Digital Object Identifier 10.1109/49.924868 Abstract | Full Text: PDF(204 KB) | IEEE JNL Rights and Permissions 25. A new method of carrier phase recovery for BPSK system using turbo-cc channel Li Zhang; Burr, A.G.; Personal, Indoor and Mobile Radio Communications, 2001 12th IEEE Internati Volume 1, 30 Sept.-3 Oct. 2001 Page(s):A-179 - A-183 vol.1 Digital Object Identifier 10.1109/PIMRC.2001.965416 Abstract | Full Text: PDF(321 KB) | IEEE CNF Rights and Permissions

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		27. A new iterative channel estimator for the log-MAP & max-log-MAP tur Rayleigh fading channel Wee-Peng Ang; Garg, H.K.; Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE Volume 6, 25-29 Nov. 2001 Page(s):3252 - 3256 vol.6 Digital Object Identifier 10.1109/GLOCOM.2001.966287	bo ı
		AbstractPlus   Full Text: PDF(137 KB)   IEEE CNF   Rights and Permissions	
		28. Iterative threshold decoding of punctured convolutional self doubly of and its application to M-ary modulation Dru, F.; Haccoun, D.; Communications, Computers and signal Processing, 2001. PACRIM. 2001 Conference on Volume 1, 26-28 Aug. 2001 Page(s):124 - 127 vol.1 Digital Object Identifier 10.1109/PACRIM.2001.953538	
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		29. Performance analysis of turbo decoder for 3GPP standard using the salgorithm  Marandian, M.; Fridman, J.; Zvonar, Z.; Salehi, M.;  Personal, Indoor and Mobile Radio Communications, 2001 12th IEEE Inter	
		<u>on</u> Volume 2,  30 Sept3 Oct. 2001 Page(s):E-127 - E-131 vol.2 Digital Object Identifier 10.1109/PIMRC.2001.965275	
		AbstractPlus   Full Text: PDF(370 KB) IEEE CNF	

	30. Phase estimation with the aid of soft output from turbo decoding Li Zhang; Burr, A.;  Vehicular Technology Conference, 2001. VTC 2001 Fall. IEEE VTS 54th  Volume 1, 2001 Page(s):154 - 158 vol.1  Digital Object Identifier 10.1109/VTC.2001.956575
	AbstractPlus   Full Text: PDF(328 KB)   IEEE CNF Rights and Permissions
⊡	31. A method to improve the decoding iteration convergence performance of Wu Yucheng; Yang Shizhong; Info-tech and Info-net, 2001. Proceedings. ICII 2001 - Beijing. 2001 Internation on Volume 2, 29 Oct1 Nov. 2001 Page(s):849 - 853 vol.2 Digital Object Identifier 10.1109/ICII.2001.983687 AbstractPlus   Full Text: PDF(256 KB) IEEE CNF Rights and Permissions
	32. The study of chaotic turbo encoder Jianbo Liu; Decun Dong; Wentao Song; Shujing Zhang; Qigang Zhou; Communications, Computers and signal Processing, 2001. PACRIM. 2001 IEE Conference on Volume 1, 26-28 Aug. 2001 Page(s):228 - 230 vol.1 Digital Object Identifier 10.1109/PACRIM.2001.953564 AbstractPlus   Full Text: PDF(168 KB) IEEE CNF Rights and Permissions
	33. Joint adaptive rate turbo decoding and synchronization on Rayleigh fadir Mielczarek, B.; Svensson, A.; Vehicular Technology Conference, 2001. VTC 2001 Spring. IEEE VTS 53rd Volume 2, 6-9 May 2001 Page(s):1342 - 1346 vol.2 Digital Object Identifier 10.1109/VETECS.2001.944605  AbstractPlus   Full Text: PDF(448 KB) IEEE CNF Rights and Permissions
	34. Improved performance of error detection in turbo decoding by incorporal with the mean-sign-change criterion Fengqin Zhai; Fair, I.J.; Information Theory, 2001. Proceedings. 2001 IEEE International Symposium c 24-29 June 2001 Page(s):143 Digital Object Identifier 10.1109/ISIT.2001.936006 AbstractPlus   Full Text: PDF(108 KB) IEEE CNF Rights and Permissions
	35. Turbo coding for sample-level watermarking in the DCT domain Balado, F.; Perez-Gonzalez, F.; Scalise, S.; Image Processing, 2001. Proceedings. 2001 International Conference on Volume 3, 7-10 Oct. 2001 Page(s):1003 - 1006 vol.3 Digital Object Identifier 10.1109/ICIP.2001.958295  AbstractPlus   Full Text: PDF(312 KB) IEEE CNF Rights and Permissions
	36. MIMO iterative decoding of serial concatenation using space-time trellis ( Eun Jeong Yim; Dong Ku Kim; Hong-Yeop Song; Electronics Letters Volume 38, Issue 4, 14 Feb 2002 Page(s):190 - 191 Digital Object Identifier 10.1049/el:20020108  AbstractPlus   Full Text: PDF(271 KB)   IEE JNL

	37. Non-coherent iterative demodulation and decoding of serially concatenal phase modulation Gottfried, Y.; Davidson, J.; Electrical and Electronics Engineers in Israel, 2002. The 22nd Convention of 1 Dec. 2002 Page(s):186 - 188 Digital Object Identifier 10.1109/EEEI.2002.1178393  AbstractPlus   Full Text: PDF(263 KB) IEEE CNF Rights and Permissions
<u> </u>	38. A real-time embedded software implementation of a turbo encoder and salgorithm based turbo decoder Sabir, M.F.; Tripathi, R.; Evans, B.L.; Bovik, A.C.; Signals, Systems and Computers, 2002. Conference Record of the Thirty-Sixtl Conference on Volume 2, 3-6 Nov. 2002 Page(s):1099 - 1103 vol.2  AbstractPlus   Full Text: PDF(387 KB)   IEEE CNF Rights and Permissions
Œ	39. Interleaver pruning for construction of variable length turbo codes Daneshgaran, F.; Mulassano, P.; Information Theory, 2002. Proceedings. 2002 IEEE International Symposium c 2002 Page(s):55 Digital Object Identifier 10.1109/ISIT.2002.1023327  AbstractPlus   Full Text: PDF(232 KB) IEEE CNF Rights and Permissions
⊏	40. New rate-(N-1)/N convolutional codes with optimal spectrum Tuchler, M.; Dholakia, A.; Information Theory, 2002, Proceedings, 2002 IEEE International Symposium c 2002 Page(s):396 Digital Object Identifier 10.1109/ISIT.2002.1023668  AbstractPlus   Full Text: PDF(222 KB) IEEE CNF Rights and Permissions
	41. Extending IEEE 802.11a to incorporate iterative turbo decoding and trans diversity Aziz, M.K.A.; Fletcher, P.N.; Nix, A.R.; Wireless Personal Multimedia Communications, 2002. The 5th International Strollwer 3, 27-30 Oct. 2002 Page(s):1063 - 1067 vol.3 Digital Object Identifier 10.1109/WPMC.2002.1088341  AbstractPlus   Full Text: PDF(672 KB) IEEE CNF Rights and Permissions
匚	42. Turbo coding scheme for GPRS system Fahmy, Y.; Abdel Kader, H.G.; El-Soudani, M.; Radio Science Conference, 2002. (NRSC 2002). Proceedings of the Nineteeni 19-21 March 2002 Page(s):247 - 254 Digital Object Identifier 10.1109/NRSC.2002.1022629  AbstractPlus   Full Text: PDF(524 KB) IEEE CNF Rights and Permissions
Γ.	43. Turbo equalizer detection for GFSK digital FM signals Okada, T.; Iwanami, Y.; Communications, 2002. ICC 2002. IEEE International Conference on Volume 5, 28 April-2 May 2002 Page(s):2952 - 2956 vol.5 Digital Object Identifier 10.1109/ICC.2002.997381  AbstractPlus   Full Text: PDF(386 KB) IEEE CNF Rights and Permissions

	44. Techniques for early stopping and error detection in turbo decoding Fengqin Zhai; Fair, I.J.; Communications, IEEE Transactions on Volume 51, Issue 10, Oct. 2003 Page(s):1617 - 1623 Digital Object Identifier 10.1109/TCOMM.2003.818099
	AbstractPlus   References   Full Text: PDF(389 KB)   IEEE JNL Rights and Permissions
С	45. Relation between encoder and syndrome former variables and symbol re estimation using a syndrome trellis Tajima, M.; Shibata, K.; Kawasaki, Z.; Communications, IEEE Transactions on Volume 51, Issue 9, Sept. 2003 Page(s):1474 - 1484 Digital Object Identifier 10.1109/TCOMM.2003.816989  AbstractPlus   References   Full Text: PDF(761 KB) IEEE JNL Rights and Permissions
<b>.</b>	46. Asymptotic analysis of superorthogonal turbo codes Wintzell, O.; Lentmaier, M.; Zigangirov, K.Sh.; Information Theory, IEEE Transactions on Volume 49, Issue 1, Jan. 2003 Page(s):253 - 258 Digital Object Identifier 10.1109/TIT.2002.806143 AbstractPlus   References   Full Text: PDF(361 KB) IEEE JNL Rights and Permissions
□	47. Performance analysis of Benedetto-Montorsi turbo codes Mraovic, M.; Senk, V.; Telecommunications in Modern Satellite, Cable and Broadcasting Service, 20( 2003. 6th International Conference on Volume 2, 2003 Page(s):693 - 696 vol.2 Digital Object Identifier 10.1109/TELSKS.2003.1246319  AbstractPlus   Full Text: PDF(329 KB)   IEEE CNF Rights and Permissions
<u>.</u>	48. Exploiting the nature of extrinsic information in iterative decoding Isukapalli, Y.; Rao, S.S.; Signals, Systems and Computers, 2003. Conference Record of the Thirty-Sevi Conference on Volume 2, 9-12 Nov. 2003 Page(s):1793 - 1797 Vol.2 Digital Object Identifier 10.1109/ACSSC.2003.1292292  AbstractPlus   Full Text: PDF(360 KB) IEEE CNF Rights and Permissions
C	49. A simplified and efficient implementation of FPGA-based turbo decoder Sharma, S.; Attri, S.; Chauhan, F.C.;  Performance, Computing, and Communications Conference, 2003. Conference the 2003 IEEE International  9-11 April 2003 Page(s):207 - 213  AbstractPlus   Full Text: PDF(691 KB) IEEE CNF  Rights and Permissions
Γ.	50. Transmission of Nonuniform Memoryless Sources via Nonsystematic Tu Communications, IEEE Transactions on Volume 52, Issue 5, May 2004 Page(s):855 - 855 Digital Object Identifier 10.1109/TCOMM.2004.826229  AbstractPlus   Full Text: PDF(36 KB) IEEE JNL Rights and Permissions



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Personal, Indoor and Mobile Radio Communications, 2004. PIMRC 2004. 15th

AbstractPlus | Full Text: PDF(708 KB) IEEE CNF Rights and Permissions 56. Improvement on turbo code decoder by updating redundant likelihood in Ariyoshi, M.; Sasase, I.; Vehicular Technology Conference, 2004. VTC 2004-Spring. 2004 IEEE 59th Volume 2, 17-19 May 2004 Page(s):1014 - 1018 Vol.2 Digital Object Identifier 10.1109/VETECS.2004.1388984 AbstractPlus | Full Text: PDF(682 KB) IEEE CNF Rights and Permissions 57. Performance of turbo coded partial response quaternary CPM over corre channels Singh, M.; Personal, Indoor and Mobile Radio Communications, 2004. PIMRC 2004. 15th International Symposium on Volume 2, 5-8 Sept. 2004 Page(s):796 - 800 Vol.2 AbstractPlus | Full Text: PDF(440 KB) IEEE CNF Rights and Permissions 58. High-rate serially concatenated coding with extended Hamming codes Isaka, M.; Fossorier, M.; Communications Letters, IEEE Volume 9, Issue 2, Feb. 2005 Page(s):160 - 162 Digital Object Identifier 10.1109/LCOMM.2005.02009 AbstractPlus | Full Text: PDF(486 KB) | IEEE JNL Rights and Permissions 59. Near-optimum serial concatenation of single-parity codes with convolution Г Wei, L.; Communications, IEE Proceedings-Volume 152, Issue 4, 5 Aug. 2005 Page(s):397 - 403 Digital Object Identifier 10.1049/ip-com:20045052 AbstractPlus | Full Text: PDF(220 KB) | IEE JNL 60. An optimal distributed and adaptive source coding strategy using rate-co punctured convolutional codes Jing Li; Algamzi, H.; Acoustics, Speech, and Signal Processing, 2005. Proceedings. (ICASSP '05). International Conference on Volume 3, 18-23 March 2005 Page(s):iii/685 - iii/688 Vol. 3 Digital Object Identifier 10.1109/ICASSP.2005.1415802 AbstractPlus | Full Text: PDF(305 KB) IEEE CNF Rights and Permissions 61. High-rate serially concatenated codes using Hamming codes Isaka, M.; Communications, 2005. ICC 2005. 2005 IEEE International Conference on Volume 1, 16-20 May 2005 Page(s):637 - 641 Vol. 1 Digital Object Identifier 10.1109/ICC.2005.1494429 AbstractPlus | Full Text: PDF(141 KB) | IEEE CNF Rights and Permissions

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